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CHINA.

IMPERIAL MARITIME CUSTOMS.

III.—MISCELLANEOUS SERIES: No. 6.



LIST OF THE CHINESE
LIGHTHOUSES, LIGHT-VESSELS, BUOYS,
AND BEACONS

FOR

1892.

(Corrected to 1st December 1891.)



TWENTIETH ISSUE.

PUBLISHED BY ORDER OF

The Inspector General of Customs.

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1892.

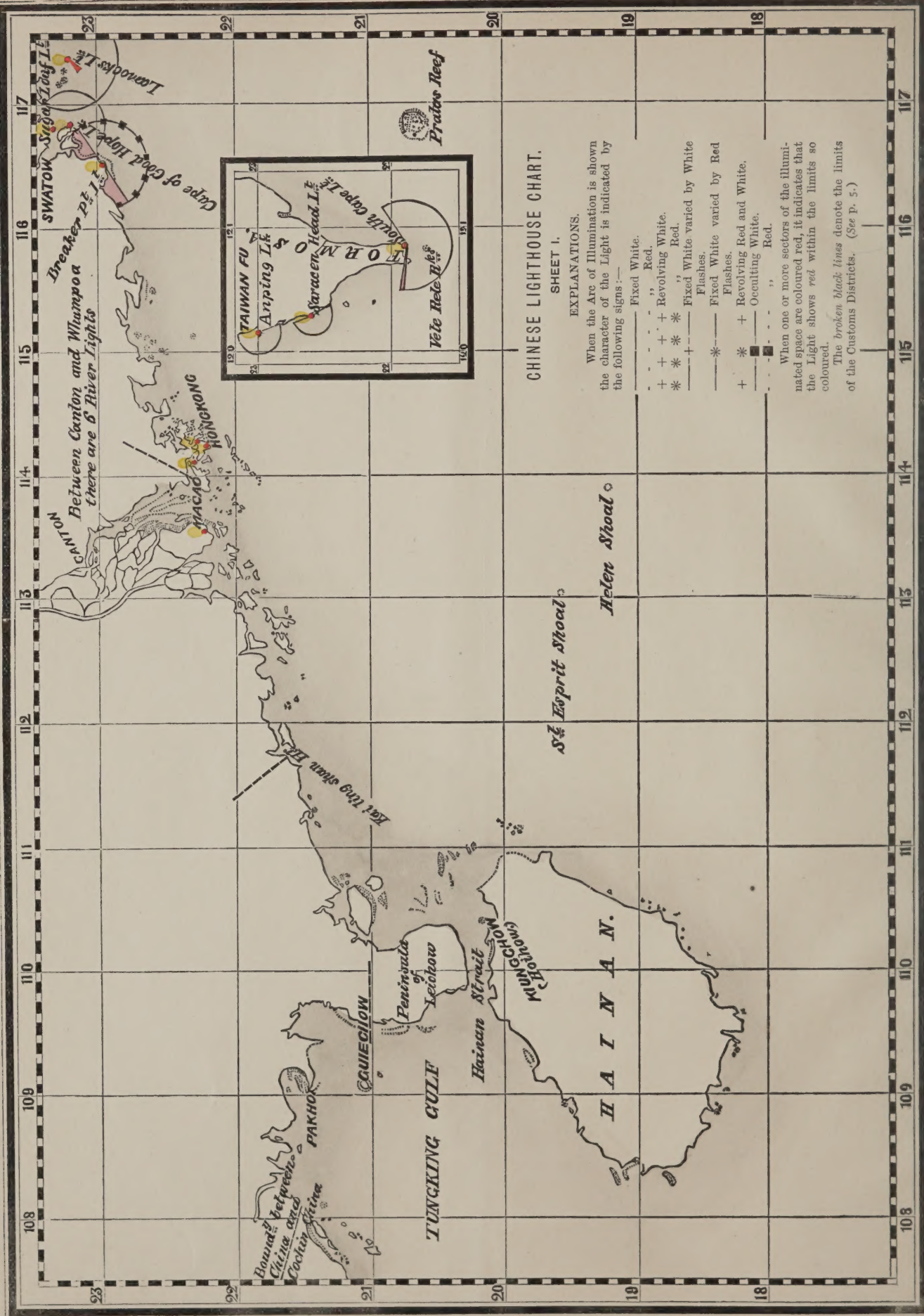
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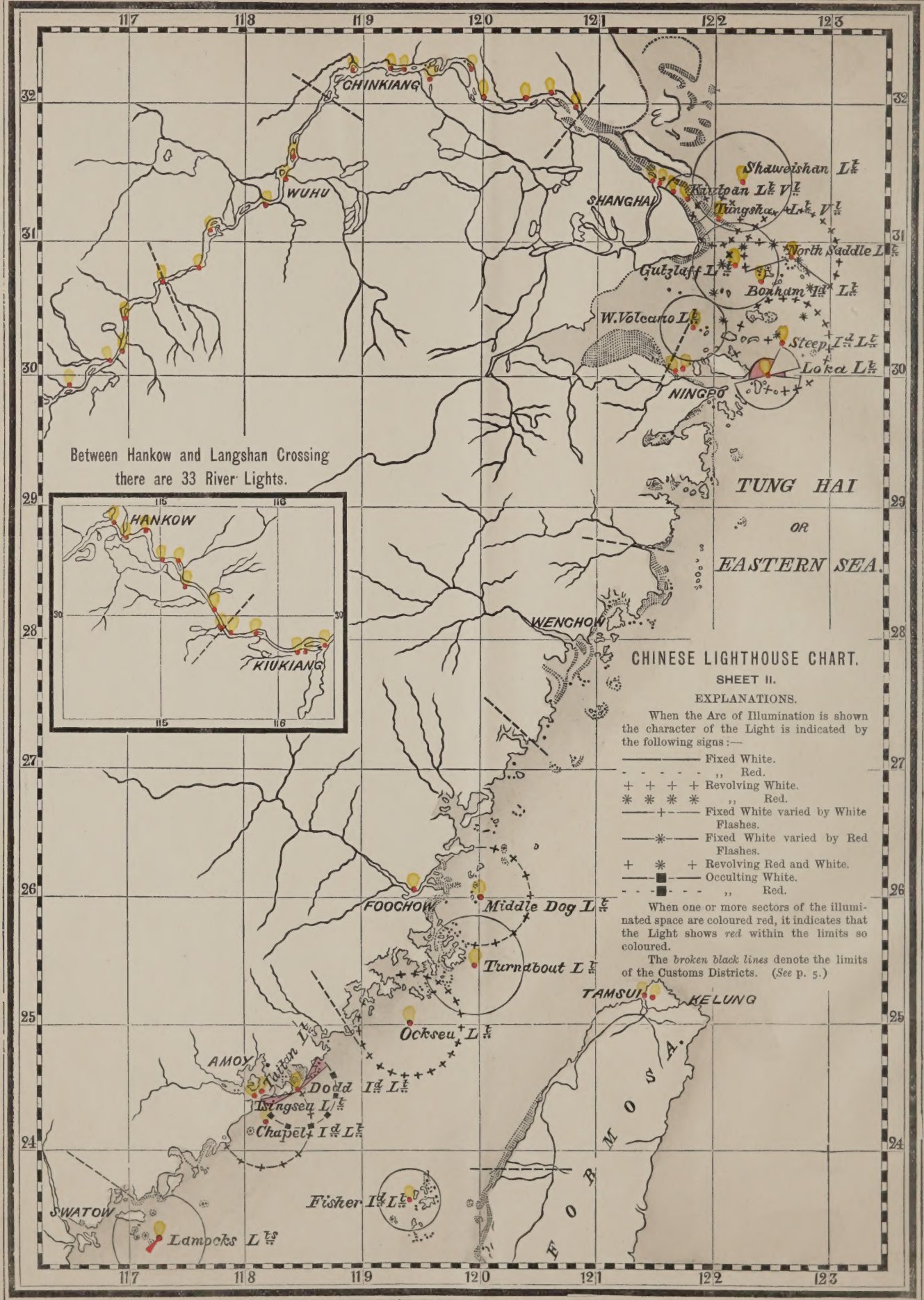
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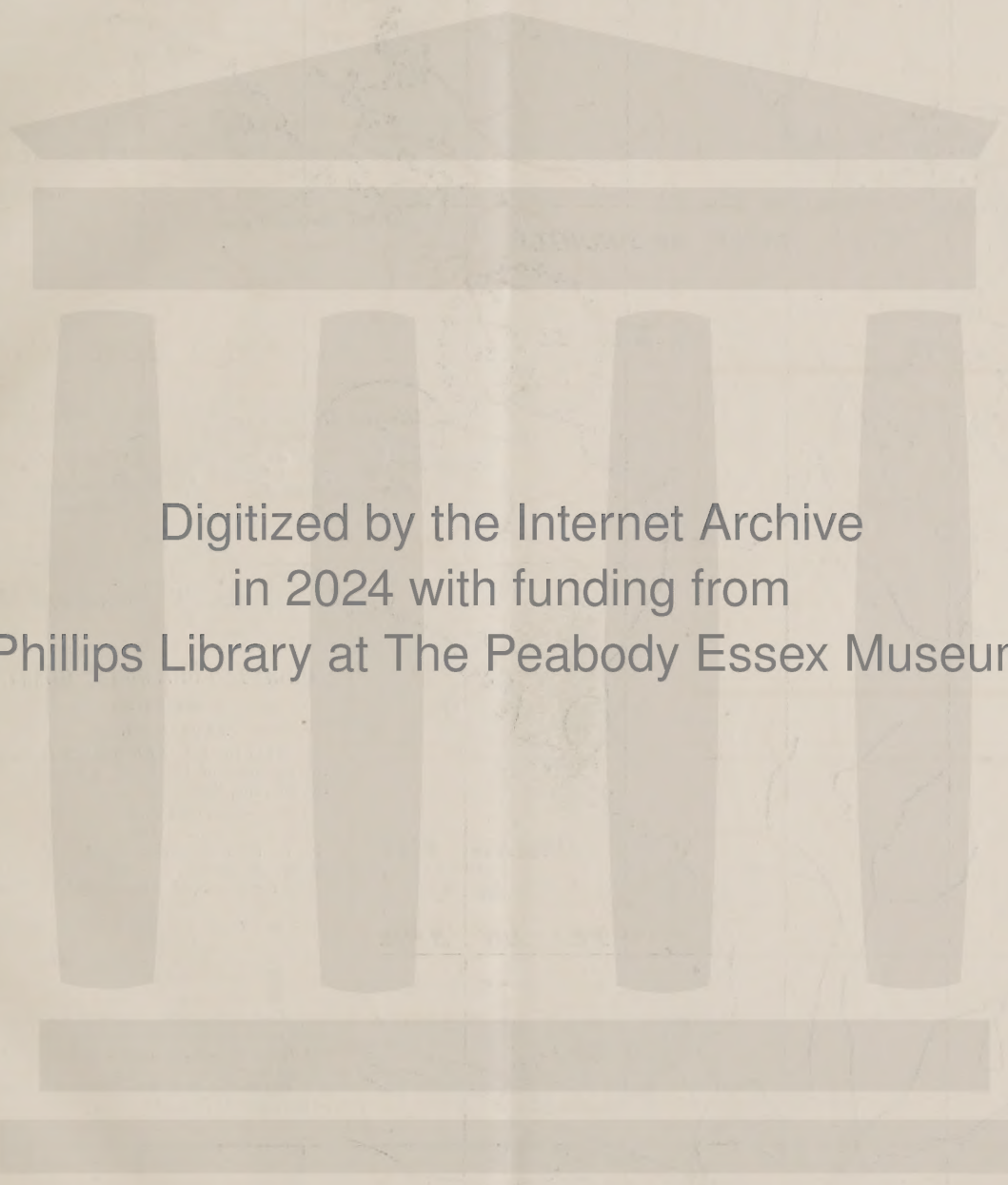
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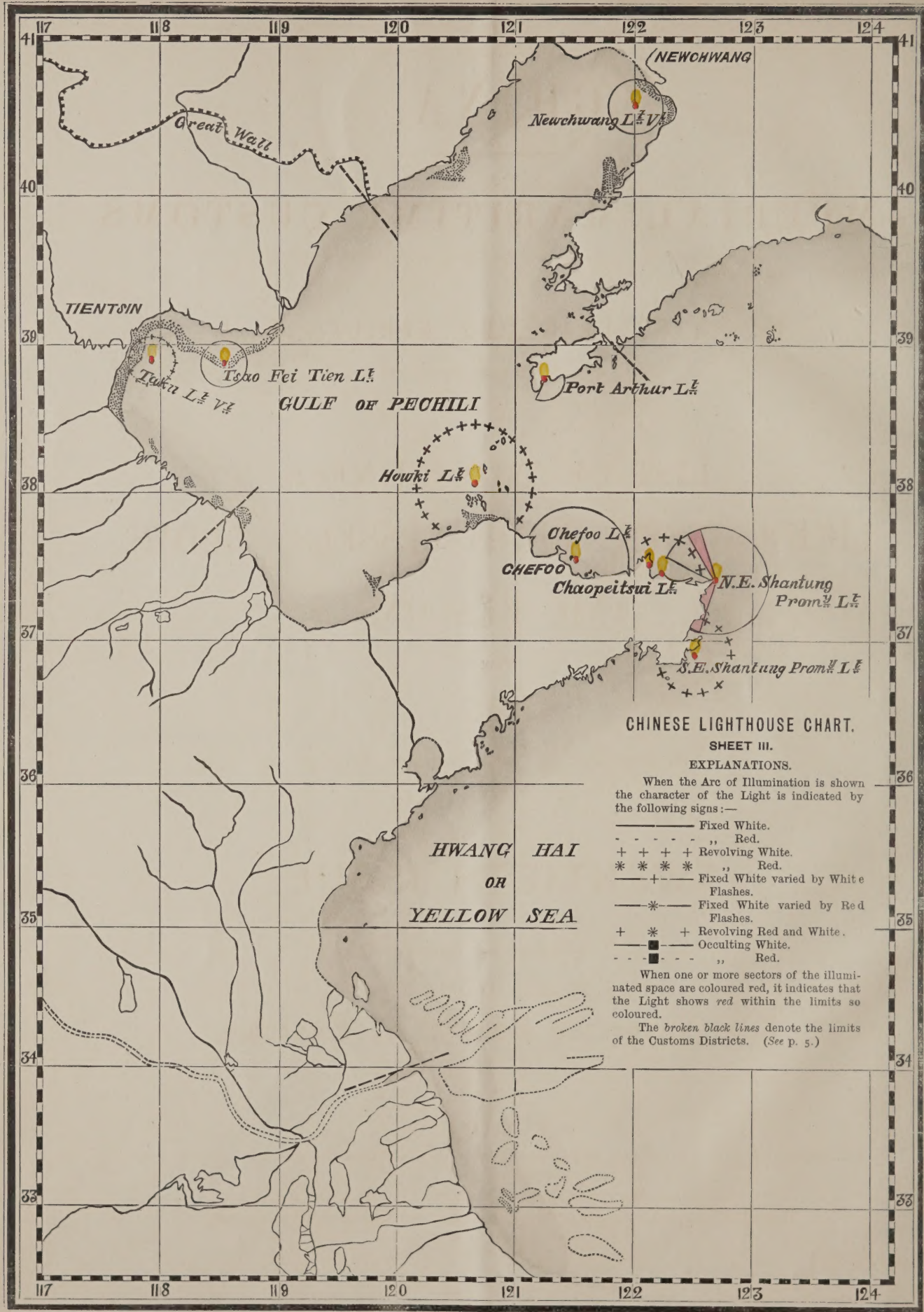






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ABBREVIATIONS AND EXPLANATIONS.

LIGHTS.

- F. Fixed ; only a fixed or steady light being visible.
- F. & Fl. Fixed and Flashing ; a fixed light being always visible, which is intensified by flashes at the intervals stated.
- Rev. Revolving ; the light gradually increases to full effect and then gradually decreases to total eclipse at the intervals given, which are from centre to centre of the maximum brilliancy.
- Occ. Occulting ; when, for the periods stated, a fixed or steady light is shown, followed by a more or less sudden eclipse.
-

ILLUMINATING APPARATUS.

- C. Catoptric, or by metallic reflectors.
- D. Dioptric, or by lenses and prisms.
- Ord. Order, or class of apparatus, numbered from the first (or most powerful) to the sixth order.
-

The bearings are magnetic, and are given from seaward.

The given distances, from which the lights should be visible in clear weather, are calculated for an observer at a height of 15 feet above the sea ; the elevation of the lights being in all cases taken as above high water.

In several cases, however, when the light is not powerful enough to carry to the distance calculated from its height, a reduced range has been given.

The coloured lights are specially noted in *italics* in the column for remarks, all others being white.

The lights are exhibited from sunset to sunrise.

Longitude is given in degrees, minutes, and seconds east of Greenwich. The miles given are nautical miles, or minutes of latitude. Except in certain specified cases, the positions given are only approximate ones.

The light-vessels and lighthouses are provided with both Codes of Signals, but it is advisable to use the Commercial Code.

Banks of rivers are spoken of geographically, *i.e.*, as *right* or *left* to a person facing *down* the stream.

*** Should Pilots or Commanding Officers of vessels detect or suspect that any movable mark has changed from its latest advertised position, they are requested to report such change without delay to the Harbour Master of the district concerned.*

DESCRIPTION OF THE LIMITS OF CUSTOMS DISTRICTS.

The Pakhoi Customs District includes the coast line of China from the Tungking frontier to Waichow (Guiechow) Island.

The Kiungchow (Hoihow) Customs District includes the Hainan coast, and from Waichow (Guiechow) Island to Hai-ling-shan.

The Canton Customs District extends (for matters affecting the Marine Department) from Hai-ling-shan, $111^{\circ} 45'$ E. longitude, to 114° E. longitude.

The Swatow Customs District includes that part of the coast which is situated between Mirs Point and the Lamocks.

The Amoy Customs District extends from the Lamocks north to Chinchew, inclusive.

The Tainan (Takow) Customs District comprises the south and southern half of the west coast of Formosa.

The Tamsui Customs District comprises the north and northern half of the west coast of Formosa.

The Foochow Customs District extends from Chinchew north to Namkwan.

The Wenchow Customs District includes the coast from Namkwan to T'aichow.

The Ningpo Customs District extends from T'aichow north to Hangchow Bay.

The Shanghai Customs District extends from Hangchow Bay along the coast as far as the old mouth of the Yellow River, latitude 34° N., and up the Yangtze to the Langshan Crossing.

The Chinkiang Customs District comprises the Yangtze from the Langshan Crossing to Nanking.

The Wuhu Customs District includes the river from Nanking to Nganking.

The Kiukiang Customs District comprises the river from Nganking to the gorge west of Kiukiang.

The Hankow Customs District extends from the gorge west of Kiukiang to Yochow, at the mouth of the Tungting Lake.

The Ichang Customs District extends from the Tungting Lake to the gorge above Ichang.

The Chefoo Customs District includes the coast line from the old mouth of the Yellow River to the Ta-tsin-ho.

The Tientsin Customs District extends from the Ta-tsin-ho to the Shan-hai-kwan.

The Newchwang Customs District extends from the Shan-hai-kwan to Newchwang and from Newchwang south to Ta-lien-wan.

** * The Limits of the Customs Districts are shown approximately on the Charts at the beginning of this volume by broken lines cutting the Coast or the Yangtze River.*

SYSTEM OF COLOURING BUOYS AND BEACONS IN CHINESE WATERS.

BUOYS.

No.	COLOUR OF BUOY.	DIRECTIONS AND EXPLANATIONS.
1	Red	Entering the channel from seaward, <i>red</i> buoys will be found on the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in.
2	Black	Entering the channel from seaward, <i>black</i> buoys will be found on the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
3	Red and black horizontal bands.	Buoys painted in <i>red</i> and <i>black horizontal bands</i> will be found in the fairway, and should be passed close-to.
4	Red and black vertical stripes.	Buoys painted in <i>red</i> and <i>black vertical stripes</i> will be found on the ends of spits, and the outer and inner extremes of banks, shoals, or extensive reefs, where there is a navigable channel on either side of such spit, bank, shoal, or reef. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
5	Red and black chequers	Buoys painted in <i>red</i> and <i>black chequers</i> will be used to mark rocks in the open sea, also to mark obstructions of small extent having channels on either side of them. When used for the latter purpose they will be placed to seaward of the danger. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
6	Red and white chequers	<p>When <i>two chequered buoys</i> of these colours are used to mark an obstruction, the <i>red</i> and <i>white</i> one is to mark the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in; and the <i>black</i> and <i>white</i> one is to mark the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.</p>
7	Black and white chequers	
8	Wreck buoys	<p>Wrecks will in all cases be marked by <i>green</i> buoys, having the word WRECK painted on them in <i>white</i> letters, and when a wreck lies in the open sea or in a position where there is a navigable channel with plenty of room on either side of it, the buoy will carry no other distinguishing mark, and will in every such case be placed to seaward of the wreck.</p> <p>Wreck buoys marked with an <i>even</i> number must be left on the <i>starboard</i> hand by vessels entering from the sea.</p> <p>Wreck buoys marked with an <i>odd</i> number must be left on the <i>port</i> hand by vessels entering from the sea.</p> <p>The numbers on wreck buoys will be painted in <i>white</i>, and placed above the word WRECK.</p>

Note.—All other distinguishing marks to buoys will be in addition to the foregoing, and where such are employed, a particular description of the same will in each case be given in the published List.

Each buoy will have an iron plate fastened on its outside, in some convenient place above the water-line, with the name of its district and station as given in the published List stamped thereon in English and Chinese, to insure its identification if found adrift.

BEACONS.

No.	COLOUR OF BEACON.	DIRECTIONS AND EXPLANATIONS.
1	Red	Entering the channel from seaward, <i>red</i> beacons will be found on the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in.
2	Black	Entering the channel from seaward, <i>black</i> beacons will be found on the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
3	Red and black vertical stripes.	Beacons painted in <i>red</i> and <i>black vertical stripes</i> will be used to mark spits and the outer and inner extremities of banks, shoals, or extensive reefs, where there is a navigable channel on either side of such spit, bank, shoal, or reef.
4	Red and black chequers	Beacons painted in <i>red</i> and <i>black chequers</i> will be used to mark rocks in the open sea, also to mark rocks of small extent having channels on either side of them.
5	Red and white chequers	<p>When two <i>chequered beacons</i> of these colours are used to mark a rock or reef, the <i>red</i> and <i>white</i> one is to mark the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in; and the <i>black</i> and <i>white</i> one is to mark the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.</p> <p><i>Note.</i>—It is to be understood that the above rules for painting beacons apply in each case to the body of the structure. When a beacon which is painted a single colour, either black or red, is surmounted by a distinguishing mark, such mark may be painted the same colour as the body of the beacon or with that colour and white combined, or white alone.</p> <p>When the body of a beacon is painted in two colours, the same colours only may be used to paint the mark by which it is surmounted. Whenever a distinguishing mark is used, a particular description of it will be given in the published List.</p>
6	Black and white chequers	
	Various	Beacons on shore, to enable bearings to be taken or to give lines of direction for crossing bars or entering rivers, harbours, etc., will be painted so as to make them as conspicuous as possible. Red, black, and white will be the only colours used, and a particular description of such marks will be given in the published List.

LIGHTS.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
1, 2	Canton	Dutch Folly North Beacons.	On the rocks near Dutch Folly Island, north side of the channel.			F.		2
3	do.	Dutch Folly South Beacon.	On the rocks near Dutch Folly Island, south side of the channel.			F.		1
4	do.	Whampoa Barrier	Whampoa Channel, at the upper end of Whampoa Island.					
5, 6	do.	Cambridge Reach Barrier.	On each side of steamer passage through barrier.					1
7	do.	Taimei Beacon	On the end of sandspit making out from 49th Point, Marines Island, Blenheim Passage.					1
8, 9	do.	Taishek Barrier Beacons.	On the north side of the barrier, Blenheim Passage.					1
10, 11	do.	High Island Barrier...	Immediately below High Island, Kellett Reach.					
12-15	do.	Bridge Barrier	On each side of the passages through Bridge Barrier.					1
16-19	do.	Collinson Reach Barrier.	On each side of the passages through barrier.					1
20	Swatow.....	Breaker Point	On the point	*22° 56' 24".5	*116° 29' 43".8	Occ.	8 seconds light and 2 seconds eclipse.	19
21	do.	Cape of Good Hope...	On the cape.....	†23° 14' 19".3	†116° 48' 24"	F. & Occ.		15 white, 8 red.
22	do.	Sugar Loaf	On the eastern end of the summit of island.	23° 19' 54"	116° 45' 32"	F. & Fl.	½ minute	8
23	do.	Lamocks	Summit of High Island	†23° 15' 42".7	†117° 17' 4".5	F.		22

* Geographical position furnished by Lieut. PIRIE, R.N., H.B.M.S. Rambler.

† " " " " Commander W. U. MOORE, R.N., H.B.M.S. Rambler.

LIGHTS.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, granite beacons, painted red, and sur- mounted by a lantern.	15	26	1859	Unclassed ...	Two <i>red</i> lights on the northern side of the channel, Dutch Folly Pass.	1, 2
Round, stone and brick beacon, painted black, and surmounted by a lantern.	10	22	1859	do. ...	A <i>green</i> light on the southern side of the channel.....	3
Iron davits, painted red on the north side of passage and black on the south side.	...	...	...	do. ...	A <i>red</i> light on the northern side and a <i>green</i> light on the southern side of the steamer passage through barrier.	4
A red spar on the north side of passage, and a black spar on the south side.	...	21	1891	do. ...	A <i>red</i> light on the northern side and a <i>green</i> light on the southern side of the steamer passage through barrier.	5, 6
Spar beacon, painted black, white, and black, and surmounted by a square frame.	21	27	1872	do. ...	A <i>white</i> light hoisted to bottom of frame.....	7
Spar beacons, painted red, white, and red, and surmounted by a circular frame.	24	46	1872	do. ...	Two <i>red</i> lights hoisted on the beacons.....	8, 9
Iron davits, painted red on the north side of passage and black on the south side.	13	16	1891	do. ...	A <i>red</i> light on the northern side and a <i>green</i> light on the southern side of passage through barrier.	10, 11
do.	18	20	1891	do. ...	A <i>red</i> light on the northern side and a <i>green</i> light on the southern side of each of the two passages through the barrier.	12- 15
do.	16	18	1891	do. ...	A <i>red</i> light on the northern side and a <i>green</i> light on the southern side of each of the two passages through the barrier.	16- 19
Round, black and white horizontal bands.	152½	120	1880	D. 1st Order	<i>White</i> from S. 55° W. round by W. to N. 53° E., and <i>red</i> inshore of both these bearings as far as the land. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 10 seconds between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	20
Round, white	171	22	1880	D. 4th Order	<i>Fixed red</i> from S. 32° E. to S. 10° E.; <i>fixed white</i> , eclipsed for about 3 seconds every minute, from S. 10° E. round by S. and W. to N. 8½° E.; and <i>fixed red</i> , eclipsed for about 3 seconds every minute, from N. 8½° E. till it is shut in by Ma-urh Point. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	21
Round, red	200	21½	1880	D. 6th Order	<i>Fixed white</i> varied by <i>red</i> flashes at ½-minute intervals; visible all round.	22
Round, black.....	241	54	1874	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 12 minutes.	23

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
24	Swatow.....	Lamocks.....	Southern slope of High Island.....			F.	.....	8
25	Amoy.....	Chapel Island	Summit of island	*24° 9' 49".1	*118° 13' 30"	F. & Fl.	$\frac{1}{2}$ minute	22
26	do.	Tsingseu Island.....	On the northern slope of the island	*24° 21' 58".1	*118° 7' 26".3	F.	.....	15 white, 8 red.
27	do.	Taitan Island.....	On the island, near the northern entrance to Amoy Harbour.	*24° 23' 16".1	*118° 10' 0".6	Occ.	14 seconds light, 2 seconds eclipse, 2 seconds light, 2 seconds eclipse, and so on.	10
28	do.	Dodd Island	Summit of island.....	*24° 25' 43".9	*118° 30' 11".1	Occ.	26 secs. light and 4 seconds eclipse.	18
29	Tainan.....	South Cape.....	About 550 yards north from high water mark at the extreme south point of the South Cape, For- mosa.	21° 55' 0"	120° 50' 38"	F.	.....	20
30	do.	Saracen Head	Front of flagstaff near the sum- mit of Saracen Head, at the entrance to Tainan Harbour.	22° 36' 14"	120° 16' 0"	F.	.....	10

* Geographical position furnished by Commander W. U. MOORE, R.N., H.B.M.S. *Rambler*.

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
No tower.....	55	18	1874	D. 4th Order condensing.	Shows a beam of <i>red</i> light between N. $34\frac{1}{2}^{\circ}$ E. and N. $50\frac{1}{2}^{\circ}$ E., covering the White and Boat Rocks. Outside of this angle of 16° the light gradually wanes on each side of it for $4\frac{1}{2}^{\circ}$. In clear weather and when a vessel is close to the lighthouse, faint <i>red</i> light is visible beyond the angle of $24\frac{1}{2}^{\circ}$, between the bearings of N. $30\frac{1}{4}^{\circ}$ E. and N. $54\frac{1}{4}^{\circ}$ E. Exhibited from a window in a building painted white.	24
Round, black	227	63	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	25
Octagonal, red and white vertical stripes.	130	33	1875	D. 4th Order	<i>Red</i> from N. 1° E. to N. 57° W.; <i>white</i> from N. 57° W. round by W. and S. to S. 50° E.; and <i>red</i> from S. 50° E. to S. 89° E. The lightkeepers' dwellings and boundary wall are painted white.	26
Iron hut, white.....	300	$10\frac{1}{2}$	1863 altd. 1888	D. 6th Order	Visible all round.....	27
Round, white.....	147	79	1882	D. 1st Order	<i>White</i> from S. 51° W. round by W. to N. 62° E.; <i>red</i> from N. 62° E. to N. 74° E.; <i>white</i> from N. 74° E. round by E. to S. 31° W.; and <i>red</i> from S. 31° W. to S. 51° W. The lightkeepers' dwellings and outhouses are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of half a minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	28
do.	180	$71\frac{1}{2}$	1883	do.	<i>White</i> from S. $54^{\circ} 55'$ W. round by W. and N. to S. 85° E.; and <i>red</i> from S. 85° E. to S. 28° E. Between the bearings S. $54^{\circ} 55'$ W. and S. $86^{\circ} 28'$ W., the visibility of the light, owing to the height of the land to the eastward of the lighthouse, will depend upon the distance of the observer from it. With the light bearing S. $54^{\circ} 55'$ W., a vessel will need to be between 15 and 20 miles distant in order to see it; but as it is brought to bear more to the westward, it illuminates more of the sea until, on the bearing S. $86^{\circ} 28'$ W., it is visible at all distances between the extreme limit of its range and the shore. To the westward and north-westward of the south-west point of Formosa, the light is entirely obscured by the land, between the bearings S. $80^{\circ} 13'$ E. and S. 28° E. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes.	29
Square, white. Lan- tern let into seaward angle of building.	$164\frac{1}{2}$	$16\frac{1}{2}$	1883	D. 6th Order	Visible from N. 36° W. round by N. and E. to S. $20^{\circ} 30'$ E., where the light is shut out by the bluff at the foot of Ape Hill.	30

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
31	Tainan.....	Anping	About 340 yards N.W. by W. from the tree on the top of the mound in Fort Zelandia.	23° 0' 40"	120° 9' 45"	F.	.....	10
32	do.	Fisher Island	S.W. extremity of island.....	23° 32' 53"	119° 28' 5"	F.	.....	15
33	Tamsui	High Bar Light.....	Hill to north of the harbour, about 400 yards S. 86° E. from the Red Fort.	.....	.....	F.	.....	10
34	do.	Low Bar Light.....	Site of old white beacon, about 1,030 yards N. 86° W. from the Red Fort.	.....	.....	F.	.....	6 white.
35	Foochow	Ockseu	Summit of High Island	*24° 59' 36".3	*119° 27' 7"	Rev.	1 minute	24
36	do.	Turnabout.....	Summit of island	*25° 26' 10".4	*119° 56' 6".8	F.	.....	23
37	do.	Middle Dog	N.E. extremity of Middle Dog Island.	*25° 58' 10".3	*119° 59' 2".1	F. & Fl.	½ minute	23
38	do.	Pagoda Rock	On the rock in the Pagoda Anchor- age.	.....	.....	F.	.....	1
39	Ningpo	Square Island	Summit of island	29° 59' 21"	121° 45' 22"	F.	.....	9
40	do.	Tiger Island	do.	29° 57' 41"	121° 43' 49"	F.	.....	5

* Geographical position furnished by Commander W. U. MOORE, R.N., H.B.M.S. Rambler.

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year. lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Iron lattice mast, white.	32½	33½	1882	D. 6th Order	Position changed in November 1890 to a new site about 1,000 feet in a N.W. by N. direction from its last position. Illuminates the whole sea horizon. During the north-east monsoon vessels may anchor anywhere in from 5½ to 6 fathoms, with the light bearing between N. 50° E. and N. 60° E. During the south-west monsoon the best anchorage will be found in from 6 to 7 fathoms, with the light bearing about N.E. ½ N.	31
Round, black	205	33	1875	D. 4th Order	Visible all round except where obscured by the islands. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	32
Round, white.....	142	35	1888	D. 6th Order	The high light shows a <i>white</i> light from S. 52° E. round by E. to N. 68½° E. The low light shows <i>green</i> from S. 59° E. to S. 84° E., <i>white</i> from S. 84° E. to N. 86° E., and <i>red</i> from N. 86° E. to N. 61° E. The two <i>white</i> lights, when kept in line, indicate the best channel for crossing the Bar when the Bar is in its normal state.	33
Square hut on the top of a square iron frame- work. All white.	33	45	1888	do.		34
Round, black.....	286	64	1874 altd. 1875	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 12 minutes.	35
do.	257	54	1873	do.	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	36
Round, white	257	64	1872	do.	Visible from S. 70° E. round by S. and W. to N. 40½° E. From S. 70° E. round by E. to N. 40½° E. the light is obscured by the Tongsha and Middle Dog Islands, except from S. 89° E. to N. 81¼° E., and from N. 61½° E. to N. 57° E., where the light is also visible. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	37
Iron pile surmounted by a cage, painted red.	16	28	1871	Unclassed ...	<i>Red</i> , visible all round.....	38
Octagonal, white	123	33	1865 altd. 1872	D. 5th Order	Visible all round. A 5-cwt. fog bell is sounded <i>once</i> in fogs at 15-second intervals.	39
Octagonal, red and white vertical stripes.	148	30	1865 altd. 1872	D. 6th Order	<i>Red</i> , visible all round. A gong is sounded in fogs, <i>five times</i> in quick succession, at intervals of about 1 minute. The lightkeepers' dwellings are painted in red and white vertical stripes.	40

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
41	Ningpo and Shanghai.	Loka Island	North point of the island	29° 58' 15"	122° 27' 20"	F.	.....	15 white, 7½ red.
42	Shanghai and Ningpo.	Steep Island	Summit of island	*30° 12' 42".2	*122° 35' 20".1	Rev.	½ minute	22
43	Shanghai ...	West Volcano	do.	*30° 20' 50".1	*121° 51' 25"	F.	.....	15
44	Shanghai and Ningpo.	Bonham Island	Southern shoulder of island	*30° 36' 56"	*122° 25' 5"	Rev.	½ minute	22
45	Shanghai ...	Gutzlaff	Summit of island	*30° 48' 36".8	*122° 10' 11".6	F.	.....	20

* Geographical position furnished by Commander W. U. MOORE, R.N., H.B.M.S. *Rambler*.

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
White.....	128	.....	1890	D. 4th Order	<i>White</i> from N. 14° 30' W. to N. 86° W. In this sector there are two small obscurations caused by islands to the S.S.E. of Loka, the light being invisible between N. 17° 30' W. and N. 19° 50' W. and between N. 23° W. and N. 26° W. <i>Red</i> from N. 86° W. to S. 78° 30' W.; <i>white</i> from S. 78° 30' W. to S. 25° W.; <i>red</i> from S. 25° W. round by S. to S. 89° 45' E.; <i>white</i> from S. 89° 45' E. to N. 77° E. From N. 77° E. round by N. to N. 14° 30' W. the light is entirely obscured by Loka Island.	41
Round, black	243	47	1883	D. 3rd Order	Between the bearings N. 20° 54' E. and N. 41° 17' E. the light is obscured by Tripod Island, and to the eastward and south-eastward of Video and the Fisherman's Group it is not visible between N. 88° 39' W. and N. 57° 41' W. To the westward and north-westward of Hall Island and Hewett Islands it is also obscured between S. 82° 13' E. and S. 63° 35' E., with the exception of a ray between the bearings S. 65° 53' E. and S. 64° 39' E. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 3 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	42
do.	93	33	1872	D. 4th Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	43
Round, red and white horizontal bands.	237	47	1883	D. 3rd Order	Alternate <i>red</i> and <i>white</i> flashes. Between the bearings S. 14° 41' W. and S. 47° 30' W. the light is obscured by the high land of Bonham Island, and to the northward and eastward of Elliot, Raffles, and Senhouse Islands it is also obscured from S. 12° 2' E. to S. 82° 16' W., with the exception of rays between S. 11° 24' E. and S. 10° 36' E., between S. 2° 21' E. and S. 0° 44' E., between S. 1° 31' W. and S. 3° 19' W., and between S. 50° 5' W. and S. 60° 11' W. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes. <i>Danger.</i> —Vessels should pass half a mile outside of the small islet, represented on British Admiralty Chart No. 1,199 as lying a little more than 1½ cables to the westward of Bonham Island, in order to avoid its outlying rocks, which are covered from 1 to 2 fathoms at low water.	44
No tower, white lantern.	270	24	1869	do.	Visible all round. Telegraph station. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	45

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
46	Shanghai....	North Saddle	N.E. extremity of island.....	*30° 51' 41".4	*122° 40' 16".6	Rev.	1 minute	24
47	do. ...	Tungsha.....	Light-vessel off S.W. edge of Tungsha Bank, in 3 $\frac{1}{2}$ fathoms water, with Gutzlaff Lighthouse bearing S. 23° 13' E., Shaweishan Island N. 37° 10' E.	31° 8' 6"	122° 0' 52"	Rev.	$\frac{1}{2}$ minute	11
48	do. ...	Shaweishan.....	Summit of island	31° 25' 27"	122° 14' 42"	F.	.....	22
49	do. ...	Kiutoan†.....	Light-vessel in 3 $\frac{1}{2}$ fathoms water, off the south-eastern end of the Blockhouse Shoal. Kiutoan Beacon bears S. 68 $\frac{1}{2}$ ° W., dis- tant 3 $\frac{3}{10}$ miles.	.....	.....	F.	.....	11
50	do. ...	Kiutoan Small Beacon	On the south bank of the Yangtze, 5 miles N.W. of the old Kiutoan Lighthouse.	31° 19' 10"	121° 39' 9"	F.	.....	5
51	do. ...	Lismore Wreck Light- boat.	About 500 feet to the northward of the Lismore wreck.	.....	.....	F.	.....	1
52	do. ...	Woosung.....	Left bank of the Woosung River, near Woosung.	31° 23' 18"	121° 29' 36"	F.	.....	12 white, 8 red, 5 green
53, 54	do. ...	Woosung Inner-Bar Lights.	Right bank of the Woosung River.....	.....	.....	F.	.....	2

* Geographical position furnished by Commander W. U. Moore, R.N., H.B.M.S. Rambler.

† Shifted to present position on the 5th January 1892.

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Upper part black, lower white.	273	54	1870	D. 1st Order	Visible from N. 52° W. round by W. and S. to N. 73° E. The remaining angle is chiefly obscured by the Saddle and Parker groups of islands. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 1 minute between the first and second and 5 minutes between the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	46
Red, one mast with black ball.	40	.....	1855 altd. 1871	C.	"TUNGSHA" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	47
Round, black	229	55	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 5 minutes between the first and second and 1 minute between the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	48
Red, one mast with black ball.	35	.....	1878	C.	"KIUTOAN" on her sides. In foggy weather a 10-cwt. fog bell will be struck three double blows in each minute, the interval between the blows of each pair being 5 seconds, and between two successive pairs of blows 15 seconds. When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag. Vessels should not attempt to pass to the north-eastward of the lightship in her present position.	49
Wooden tripod, black	32	40	1868 altd. 1878	D. 6th Order	Red, visible all round, except on the landward side	50
Junk with one mast and ball.	.....	.....	1877	Unclassed ...	A <i>red</i> light with a <i>white</i> light underneath it. Vessels should not attempt to pass between the light-boat and the wreck.	51
Square, black	50	58	1865 altd. 1872, 1873, 1875, 1878, and 1888.	D. 4th Order	White from the bank of the Yangtze to the north-westward of the lighthouse to S. 14° 30' W.; green from S. 14° 30' W. to S. 57° 20' W.; white from S. 57° 20' W. to S. 70° 50' W.; and red from S. 70° 50' W. to the left (western) bank of the Woosung River.	52
.....	.....	.....	1872	Unclassed ...	A <i>red</i> light on the low bar mark near the river bank, and a <i>white</i> light on the high mark farther inland. See Nos. 44, 45 in list of Beacons.	53, 54

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
55	Chinkiang, Yangtze.	North Tree	On the north bank of the river			F.	.....	7
56	do. ...	Cooper Bank.....	do. do.			F.	.....	7
57	do. ...	Tung-lo-tu	do. do.			F.	.....	7
58	do. ...	Bate Point, or Fish- bourne Island.	On Bate Point			F.	.....	7
59	do. ...	Beaver, or Pottinger Island.	On the southern extremity of the island.			F.	.....	7
60	do. ...	Tantu.....	On the south bank of the river, distant 5.62 miles below Silver Island.			F.	.....	7
61	do. ...	Pei-sin-chow.....	Lower (east) end of island, distant 5 miles from Chinkiang.			F.	.....	7
62	do. ...	Bethune Point.....	Upper (west) end of Pei-sin-chow Island.			F.	.....	7
63	do. ...	Mud Fort.....	On a low point on the north bank of the river, marked on some of the British Admiralty charts as Mud Fort, distant from Bethune Point 21 miles.			F.	.....	7
64	do. ...	Wade Island.....	On the island, about 4 miles from the lower (north) end.			F.	.....	7
65	do. ...	Wuhu.....	East bank of the river, $3\frac{1}{2}$ miles above Point Morton.			F.	.....	7
66	Kiukiang, Yangtze.	Point Haines Beacon..	On the south (right) bank of the river.			F.	.....	7
67	do. ...	Buckminster Island Beacon.	On Chin-tê-chow Island, about $1\frac{1}{2}$ miles from the lower (north) end.			F.	.....	7
68	do. ...	Fitzroy Island Beacon	On the left bank of the river.....			F.	.....	7
69	do. ...	Tai-tzü-chi Beacon....	On the N.W. side of the Rock Temple.			F.	.....	7
70	do. ...	Kiangloong Wreck Light-boat.	Moored off the left bank of the river, abreast the wreck.			F.	.....	4
71	do. ...	Hen Point Beacon.....	On the left bank of the river, opposite Hen Point.			F.	.....	7
72	do. ...	Eagle Island Beacon...	On the right bank, near point opposite Ngankin.			F.	.....	7
73	do. ...	Christmas Island Bea- con.	Upper (south) end of island			F.	.....	7
74	do. ...	Spencer Rock Light- boat.	Moored immediately below the lower or N.E. ledge of Spencer Rock, in Tung-liu Reach.			F.	.....	7

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Black, single pole, sur- mounted by wicker ball.	65	73	1868	D. 6th Order	Altered 1873. Position changed 1874, 1884, and 1886. In July 1890 this light was shifted 450 feet N. 50° E. from its last position.	55
do.	51	62	1867	do.	Altered 1873. Position changed 1876, 1880, 1881, 1882, 1883, 1885, and 1887. In July 1888 was shifted 1,500 yards N. 60° E. from its last position.	56
do.	49	59	1871	do.	Altered 1875. Position changed 1877.....	57
do.	53	63	1867	do.	Altered 1873.....	58
do.	52	62	1867	do.	Altered 1872. Position changed 1878. In September 1885 this light was shifted about 690 yards S. 11° E. from its last position.	59
do.	75	43	1867	do.	Altered 1875.....	60
do.	51	64	1871	do.	Altered 1873.....	61
do.	55	68	1867	do.	Altered 1875. Position changed 1878, 1881, 1883, and 1885. In September 1887 this light was shifted 230 yards N. 5° E. from its last position.	62
do.	55	70	1877	do.	Position changed 1878 and 1881. In April 1890 this light was shifted 720 feet N. 70° E. from its last position.	63
do.	52	70	1867	do.	Altered 1873.....	64
do.	77	44	1867	do.	Altered 1875.....	65
do.	34	48	1870	do.	Altered 1871. Position changed 1888.....	66
do.	32	46	1870	do.	Altered 1871. Position changed 1883. Shifted S. 48° E. 50 yards, on 8th October 1891.	67
do.	32	46	1870	do.	Altered 1871. Shifted to left bank of the river and about 2 miles lower down, on 9th September 1891.	68
do.	26	42	1870	do.	Altered 1871.....	69
One mast with black ball.	25	.....	1873	do.	Altered 1875, 1876, 1883, and 1885. <i>Red</i> . The light-boat is moored abreast the wreck (not over it), to mark the starboard side of the channel for vessels entering from seaward; and it should be passed close-to in order to avoid the wreck. From the wreck Hen Point bears S. 68° E., and Tai-tzü-chi Rock Temple N. 35° E.	70
Grey, single mast.....	35	38½	1870	do.	Altered 1871. Position changed 1882. Discontinued 1883. Re-established in March 1885. <i>White</i> . Visible all round.	71
Black, single pole, sur- mounted by wicker ball.	32	46	1870	do.	Altered 1871. Position changed 1879, 1880, 1882, 1884, and 1886. In May 1887 this light was removed from the island and re-erected on the right bank of the river, opposite its former position. In September 1891 the light was shifted down river about 1½ miles (nearer Ngankin).	72
do.	34	48	1870	do.	Altered 1871. Position changed 1873, 1874, 1878, 1880, 1883, 1886, 1888, and 1889. In June 1890 this light was shifted 136 yards N. 19° W. from its last position.	73
One mast with black ball.	25	.....	1873	do.	Altered 1884. The light-boat is moored at the lower or N.E. ledge of Spencer Rock, to mark the starboard side of the south channel for vessels entering from seaward. Only in position during low stage of the river, viz., from about 1st December to 30th June.	74

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
75	Kiukiang, Yangtze.	Dove Point Beacon ...	On the north (left) bank of the river.	.....	.....	F.	.....	7
76	do. ...	N.E. Crossing Beacon	do. do.	.....	.....	F.	.....	7
77	do. ...	N.E. Crossing Channel Light-boat.	Moored near the lower end of the sand-bank marked on British Admiralty Chart No. 2,695, "Dries at 26 feet."	.....	.....	F.	.....	7
78	do. ...	Point Otter, Lay Island	Lower (east) end of island .....	.....	.....	F.	.....	7
79	do. ...	Kiukiang Rocks.....	On the south (right) bank of the river.	.....	.....	F.	.....	7
80	do. ...	Kiukiang Rocks Bea- con.	On the rock itself .....	.....	.....	F.	.....	1
81	Hankow, Yangtze.	Li-yü-shan	On top of small hill on right bank of river, about 4 miles above Wu- sueh and opposite lower end of Hwang-lin-chow Shoal.	.....	.....	F.	.....	7
82	do. ...	Low Point.....	On the point .....	.....	.....	F.	.....	5
83	do. ...	Ruined Fort.....	On top of fort .....	.....	.....	F.	.....	7
84	do. ...	Lee Rock	On bluff, about 1 mile above rock .....	.....	.....	F.	.....	4
85	do. ...	Collinson and Hunter Islands Light-boat.	Off lower end of Collinson Island cut off and upper end of Hunter Island.	.....	.....	F.	.....	7
86	do. ...	Collinson Island Light-boat.	Off upper end of Collinson Island .....	.....	.....	F.	.....	7
87	do. ...	Ten-foot Rock.....	Off the point opposite Yang-low, and on edge of north bank of river opposite Ten-foot Rock.	.....	.....	F.	.....	7
88	do. ...	Gravener Island Light-boat.	Off upper end of Gravener Island .....	.....	.....	F.	.....	7
89	do. ...	Bouncer Island Light-boat.	Off lower end of Bouncer Island .....	.....	.....	F.	.....	7
90	Chefoo.....	South-east Shantung Promontory.	On the S.E. elbow of the South- east Shantung Promontory.	36° 54' 0"	122° 31' 45"	Rev.	½ minute	15 ⁷ / ₁₀

LIGHTS—*Continued.*

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Black, single pole, sur- mounted by wicker ball.	32	46	1870	D. 6th Order	Altered 1871. Position changed 1872, 1873, 1874, 1875, 1878, 1883, 1886, and 1888. In December 1890 this light was shifted 130 yards N. 52° E. from its last position.	75
do.	34	48	1870	do.	Altered 1871. Position changed 1872, 1874, 1875, 1883, and 1888. In December 1890 this light was shifted 83 yards N. 22° E. from its last position.	76
One mast with black ball.	25	.....	1886	do.	The light-boat is moored about 3 miles above N.E. Crossing light beacon, on the north side of the channel at its narrowest part, to indicate the channel when the banks are flooded. Only in position during high stage of the river, viz., from about 1st July to 30th November.	77
Black, single pole, sur- mounted by wicker ball.	34	48	1870	do.	Altered 1871	78
Lantern-hut white; light shown from corner.	52	16	1870	do.	Altered 1886. Shows a <i>red</i> sector of light over the rocks, and a <i>white</i> sector in approaching them from above or below.	79
.....	28	.....	1891	Unclassed....	<i>Red.</i> This beacon is erected on the middle of the rock, and surmounted by a 4-foot spherical wicker cage.	80
Light exhibited from top of small pillar standing in front of keeper's quarters,—a two-story grey brick building with a Chi- nese roof.	84	.....	1886	D. 6th Order	The hill on which the light stands is known locally as Li-yü- shan. The light illuminates an arc of 240°, <i>i.e.</i> , from N. 40° W. round by W., S., and E. to N. 80° E.	81
A single pole, with ball on top.	43	58	1871	do.	<i>Red.</i> Altered 1872. Visible from S.E. round by S. and W. to N. 15° E.	82
A single pole, with ball on top, extending through roof of house.	31	.....	1873	do.	Visible from S. 25° W. round by S. and E. to N. 35° W.	83
Lantern-hut grey; light shown from corner.	60	.....	1882	do.	<i>Red.</i> Altered December 1884	84
One mast and ball.....	25	.....	1871	do.	Altered 1873. Stationed off the upper end of Hunter Island from about December to end of June, and off Collinson Island, lower end (cut-off) from about 1st July to December.	85
do.	25	.....	1871	do.	Altered 1873. Stationed near north bank from about De- cember to end of June, and to mark cut-off from about 1st July to December.	86
do.	25	.....	1873	do.	Opposite Ten-foot Rock from about end of November to 30th June.	87
do.	25	.....	1869	do.	Altered 1873. Position changed as necessary.....	88
do.	25	.....	1871	do.	Altered 1873. Stationed on north side of spit, to mark the cut-off, from about 1st July to December, and on south side from about December to end of June.	89
Round, red and white horizontal bands.	96½	77½	1883	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. A first-class siren, giving a blast of 4 seconds duration at intervals of 1½ minutes, will be sounded during thick or foggy weather. <i>Dangers.</i> —Regarding the island which forms the South-east Shantung Promontory, the "China Sea Direc- tory," vol. III, 1874, p. 463, states that:—"Extensive reefs, some detached, border the whole shore, which is of the most dangerous character and should not be passed at less than a mile, except off the western bluff, nor in less than 9 fathoms water."	90

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
91	Chefoo.....	North-east Shantung Promontory.	On the N.E. extremity of the North-east Shantung Promontory.	37° 24' 0"	122° 42' 0"	F.	.....	22
92	do.	Chao-pei-tsui	On the northernmost bluff immediately to the eastward of Weihaiwei Harbour.	37° 27' 41"	122° 15' 5"	Rev.	30 sec.	15
93	do.	Observatory Island ...	Near western shoulder of island...	37° 30' 25"	122° 10' 25"	F.	.....	4 red, 6 white.
94	do.	Chefoo Light.....	Kung-tung-tao Island, highest part	37° 34' 10"	121° 32' 15"	F.	.....	22
95	do.	Howki Island	Summit of island	38° 3' 45"	120° 39' 0"	Rev.	$\frac{1}{2}$ minute	24
96	do.	Port Arthur.....	On Bluff at western side of entrance to Port Arthur.	38° 47' 26"	121° 15' 26"	F.	.....	8
97	Tientsin.....	Tsao-fei-tien	Tsao-fei-tien Island ("Sha-lui-tien").	38° 56' 0"	118° 31' 0"	F.	.....	10
98	do.	Taku	Light-vessel in outer anchorage, and moored in 17 feet of water at low water springs, off Taku Bar.	.....	.....	Rev.	$\frac{1}{2}$ minute	11

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, white	220	64	1874	D. 1st Order	<i>White</i> from S. 62° E. to S. 30° E.; <i>red</i> from S. 30° E. to S. 17° E.; <i>white</i> from S. 17° E. round by S. and W. to N. 21° E.; and <i>red</i> from N. 21° E. to N. 49° E. Between S. 59½° E. and S. 18¼° E. the light is seven times obscured by peaks; the obscuration between S. 26° 18' E. and S. 23° 10' E. being caused by Alceste Island. The light-keepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	91
White.....	94	35½	1891	D. 4th Order	To mark the eastern entrance to Weihaiwei Harbour. The lightkeepers' dwellings and boundary wall are painted white.	92
White, iron frame-work	61	.....	1891	D. 6th Order	<i>Red</i> between the north-western shoulder of Leu-kung-tau and S. 46½° W.; <i>white</i> between S. 46½° W. and S. 28¾° W.; and <i>red</i> between S. 28¾° W. round by E. and N. to N. 23½° W. The lightkeepers' dwelling is painted white. <i>Directions.</i> —Vessels entering should keep in the <i>white</i> sector, with the light bearing about S. 37° W. magnetic, till Round Island bears N. 45° W., then haul gradually to the westward into the <i>red</i> sector and round the north-western end of Observatory Island at a distance of not less than 2 cables.	93
Round, white and red horizontal bands.	242	45	1867	C. 1st Order	Visible all round. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes.	94
Round, black	328½	46½	1882	D. 1st Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 2 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes. <i>Note.</i> —The exhibition of this light is discontinued on the 16th December of each year and resumed on the 1st March of the following year.	95
Black and white hori- zontal bands.	90	22	1891	D. 6th Order	<i>White</i> between the bearings S. 50° W. round by W. and N. to N. 27½° E. Keepers' dwellings and boundary wall are painted white. <i>Note.</i> —The Port Arthur Light is in the Newchwang Customs district, but it is under the control of the Chefoo Customs.	96
Octagonal, built of brick and stone.	50	45	1886	do.	Visible all round. Discontinued from 1st January to 1st March.	97
Red, one mast with black ball.	35	.....	1880 altd. 1887	C.	"TAKU" on her sides. In foggy weather a gong will be sounded at 1-minute intervals. In order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from the opening of the river to the 30th November, on account of ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	98

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
99	Newchwang	Newchwang	Light-vessel in 5 fathoms water, about $3\frac{1}{2}$ miles W.S.W. from bar of Liao River.	40° 35' 0"	122° 0' 0"	F.	.....	11

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Red, three masts, with black ball on main- mast only.	35	.....	1867 altd. 1871	C.	"NEWCHWANG" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam fog horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted and a blue light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from about the 1st April to the 15th November, on account of the ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	99

BUOYS.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
PAKHOL.				
1. Starboard Buoy.....	Red nun buoy, 4½ feet in diameter, surmounted by a black spherical cage.	On starboard side of fairway, entering from seaward, between rows of fish-stakes off the village of Tikok, at the entrance to the anchorage.	21 feet.....	From the buoy, Custom House bears S. 84° E. and Tikok Point S. 32° E. A clear passage, 270 feet wide, exists between these buoys, with not less than 19 feet of water at low water spring tides.
2. Port Buoy.....	Black nun buoy, 4½ feet in diameter, surmounted by a black diamond-shaped cage.	On port side of fairway, entering from seaward, between rows of fish-stakes off the village of Tikok, at the entrance to the anchorage.	18 do.	From the buoy, Custom House bears S. 83° E. and Tikok Point S. 30° E.
3. Harbour Buoy.....	White and black vertically striped nun buoy, 3½ feet in diameter.	At inner (east) limit of anchorage for foreign vessels.	14 do.	From the buoy, Custom House bears S. 70° E. and Tikok Point S. 64° W. Vessels drawing more than 12 feet should not anchor to the eastward of the buoy.
CANTON.				
1. Dutch Folly North Buoy	Wooden conical-shaped buoy, painted red above water.	Near Dutch Folly Island, Canton River.	8 feet	Marks the western extremity of the channel, northern side, between the rocks, on which the depth of water is 4 feet at low water spring tides. A red light is placed on it from sunset to sunrise.
2. Dutch Folly South Buoy	Wooden conical-shaped buoy, painted black.	do. do.	12 do.	Marks the western extremity of the channel, southern side, between the rocks. Moored close to the northern side of the rock, on which the depth of water is 2 feet at low water spring tides. A green light is placed on it from sunset to sunrise.
3. Macao Fort Rock Buoy	do. do.	On the north-east extremity of Macao Fort Rock.	10 do.	Marks the north-eastern extremity of Macao Fort Rock. A green light is placed on it from sunset to sunrise. Vessels should pass between this buoy and the Haeshin Rock Buoy.
4. Haeshin Rock Buoy.....	Wooden conical-shaped buoy, painted red above water.	South-western edge of Haeshin Rock.	10 do.	Marks the south-western edge of Haeshin Rock. A red light is placed on the buoy from sunset to sunrise. Vessels should pass between this buoy and the Macao Fort Rock Buoy.
5. Shamien Rock Buoy.....	Wooden conical-shaped buoy, painted in red and black chequers above water.	On the northern extremity of the Shamien Rocks.	12 do.	Marks the northern extremity of Shamien Rocks. A red light is placed on the buoy from sunset to sunrise. Vessels entering should leave this buoy on the port hand when rounding-to to anchor in the harbour.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
6. Fa-ti Rock Buoy	Wooden conical-shaped buoy, painted in red and black chequers above water.	On the northern extremity of the rock.	12 feet	A red light is placed on this buoy from sunset to sunrise.
SWATOW.				
1. Dove Rock Whistling Buoy.	Red and black chequered automatic whistling buoy, 10 feet in diameter at the water line.	Off the Dove Rock.....	4½ fathoms...	Placed about 2 cables from the pinnacle of the Dove Rock, so as to mark the S.E. extremity of the reef.
2. Mud Flat Buoy	Red conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	Outer edge of mud bank; E. ½ N. of Customs Pier; distant three-quarters of a mile.	2 do. ...	Marks the southern edge of the mud bank on the north side of the harbour.
3. Wyoming Rock Buoy...	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black inverted frustum cage.	Off the rock, Swatow Anchorage	7 do. ...	This buoy is placed about 40 yards N.E. from the rock, on which there is 4 feet of water at low water spring tides.
4. Madras Rock Buoy.....	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	do. do.	3½ do. ...	This buoy is placed about 40 yards N. by E. from the rock, which has only 6 feet of water on it at low water spring tides.
AMOY.				
1. Coker Rocks East Buoy	Black and white chequered conical buoy, 6 feet in diameter.	Eastward of the Coker Rocks	8 fathoms...	} Vessels should not pass between these buoys.
2. Coker Rocks West Buoy	Red and white chequered conical buoy, 6 feet 5 inches in diameter.	Westward of the Coker Rocks	6¾ do. ...	
3. Brown's Rocks East Buoy.	Black and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.	Eastward of the Brown's Rocks	12 do. ...	} do. do.
4. Brown's Rocks West Buoy.	Red and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.	Westward of the Brown's Rocks	6½ do. ...	
5. Harbour Rock Buoy.....	Red and black chequered nun buoy, 3 feet 4 inches in diameter.	On the north-western edge of the Harbour Rock.	22 feet	About 130 fathoms S.W. of Dock Island. Vessels passing inside this buoy should give it a berth of not less than 50 fathoms.
6. Kellett Spit Buoy	Red and black vertically striped conical buoy, 6 feet in diameter.	On the northern end of the Kellett Spit.	22 do.	Vessels should not pass between this buoy and the Island of Kulangsu.
7. Quemoy Spit Buoy.....	Red automatic whistling buoy. The name "QUEMOY" is painted on the buoy in white letters.	Off the south-south-western edge of the spit.	8 fathoms...	10 feet in diameter. In consequence of the extension of the spit the buoy has been moored about 6 cables S. 68° W. from the position it formerly occupied. Vessels should not pass between this buoy and Quemoy Island.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
8. Minerva Rock Buoy	Black nun buoy, 7 feet 6 inches in diameter. The name "MINERVA" is painted on the buoy in white letters.	To the south-eastward of Minerva Rock (off the extremity of Cass Spit).	4 fathoms ...	From the buoy, the summit of Monkey Island bears N. 24½° E., Druid Head (on Kulangsu) bears N. 62° E.; Cornwallis Stone (on Amoy) bears S. 85° E. Vessels should not pass between this buoy and Sungseu Island.
TAMSUI.				
1. Northern Bar-buoy	Black conical buoy, 6 feet in diameter.	Northern side of approach to Tamsui Bar.	29 feet	Low Bar Light, S. 82° E.; Chinese beacon, N. 57° E.
2. Southern Bar-buoy	Red conical buoy, 6 feet in diameter.	Southern side of approach to Tamsui Bar.	22 do.	Low Bar Light, N. 85° E.; Chinese beacon, N. 46° E.
3. Harbour Buoy	Red nun buoy, surmounted by a black spherical cage.	On the northern edge of the sandspit at the southern side of the entrance to Tamsui Harbour.	13 do.	Low Bar Light, N. 80° E., about 3½ cables distant.
4. Inflexible Reef Buoy	Black conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	Inflexible Reef, Kelung Harbour.	60 do.	Image Point, N. 60° W.; Ruin Rock, S. 28° W.
5. Coral Shoal Buoy	Red conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	To the eastward of shoal, Kelung Harbour.	30 do.	Image Point, N. 24° W.; Ruin Rock, S. 61° W.
FOOCHOW.				
1. Min Reef Whistling Buoy.	Red and black chequered automatic whistling buoy. The name "MIN" is painted on the buoy in white letters.	Off the northern extremity of Min Reef.	66 feet	10 feet diameter. From the buoy Chang-chi Peak bears N. 49° E.; Sharp Peak bears N. 73° W.
2. Aymar Rock Buoy	Red and black chequered buoy, surmounted by a black diamond-shaped cage. The name "AYMAR" is painted on the buoy in white letters.	About 3 cables east of Aymar Rock, entrance to Min River.	54 do.	6 feet diameter. Chang-chi Peak bears N. 66° 30' E.; Middle Dog Lighthouse bears S. 35° 15' E.; Sea Dog bears S. 55° 30' E.
3. East Channel Entrance or No. 1 Fairway Buoy.	Red and black horizontally striped fairway buoy, surmounted by a cage.	Entrance to Min River, East Channel.	24 do.	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 73° 30' W.; Black Head bears S. 39° 30' W.
4. Middle or No. 2 Fairway Buoy.	Red and black horizontally striped fairway buoy, surmounted by a black conical frustum cage.	Entrance to Min River	15 do.	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 65½° W.; Black Head bears S. 23½° W.
5. Inner or No. 3 Fairway Buoy.	Red and black horizontally striped fairway buoy, surmounted by a black cage.	do. do.	39 do.	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 47° W.; Round Island bears S. 58° W.
6. Eme Rock Buoy	Red nun buoy	Starboard side of channel, Min River.	13½ do.	Clears Eme Rocks. Sharp Peak Point bears S. 77° E.; Sharp Peak Summit bears N. 12° E.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
7. Temple Rock Buoy.....	Red nun buoy.....	Temple Rock, Min River.....	21 feet	Marks the southern extremity of the rock.
8. Stone Barrier Buoy.....	Black nun buoy	Close to the northern end of Stone Barrier opposite Temple Point, Min River.	21 do.	Vessels should not pass between this buoy and Wild Duck Bank (West Brother).
9. Spiteful Island Black Buoy.	do.	Port side of channel, Min River.	48 do.	Clears the rocks off Spiteful Island.
10. Niu-ta Rock South Buoy	Red and white chequered nun buoy.	On the southern edge of the Niu-ta Rock.	17 do.	} Vessels must not pass between these buoys.
11. Niu-ta Rock North Buoy	Black and white chequered nun buoy.	On the northern edge of the Niu-ta Rock.	24 do.	
NINGPO.				
1. Sesostri Rock Buoy	Black and red chequers, surmounted by a black cage.	Near the rock in mid-channel	30 feet	This buoy is placed to the eastward of the rock, on which there is 9 feet of water at low water spring tides.
2. Seaou-yew Spit Buoy ...	Black buoy surmounted by a black cage.	On the end of the mud spit projecting from Seaou-yew Island.	14 do.	Tiger Island Lighthouse bears S. 23° W.; summit of Look-out Hill bears S. 40° E.
SHANGHAI.				
1. Ariadne Rock Whistling Buoy.	Red and black chequered automatic whistling buoy.	About 50 fathoms south of the Ariadne Rock.	30 feet	8 feet in diameter, and 8 feet above the water line. The Ariadne Rock just shows at low water spring tides.
2. <i>Fairy</i> Wreck Buoy.....	Green conical buoy with the word "WRECK" and the numeral "3" painted on it in white.	About 150 yards north-eastward of wreck of <i>Fairy</i> ; House Island Surveying Beacon bearing N. 10° W.; distant about $4\frac{8}{10}$ miles.	14 do.	
3. Middle Ground Lower Buoy.*	Black buoy with black spherical cage.	Off the north-eastern edge of the south bank, with House Island Surveying Beacon bearing N. 11° W.; distant about $3\frac{6}{10}$ miles.	20 do.	6 feet diameter, $11\frac{1}{2}$ feet high.
4. Middle Ground Upper Buoy.*	Black buoy with black cylindrical cage.	Off the upper or north-western end of the shoal formerly known as the Middle Ground, with Kiutoan Beacon bearing S. 12° W.; distant about $2\frac{2}{10}$ miles.	20 do.	do. do.
5. South-east Knoll Buoy†	Red buoy with black spherical cage.	Off the south-easternmost of a line of knolls which are developing off the south-western side of Blockhouse Shoal; small Kiutoan Beacon bearing S. 87° W.; distant about $2\frac{1}{10}$ miles.	19 do.	do. do.
6. <i>Lismore</i> Wreck Buoy ...	Green nun buoy, with the word "WRECK" and the numeral "1" painted on it in white.	Immediately below the wreck of the <i>Lismore</i> , in line with the wreck and Woosung Lighthouse.	17 do.	4 feet diameter.
7. Woosung Spit Buoy.....	Red and black vertically striped buoy, with black spherical cage.	On the eastern end of Woosung Spit and starboard side of channel at the entrance to the Woosung River.	18 do.	10 feet diameter, 18 feet high to top of cage.

* Shifted into position on the 5th January 1892.

† First placed in position on the 5th January 1892.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
Yangtze River above Woosung.	8. Tsungming Bank Buoy.	Red buoy with black spherical cage.	On the north side of the channel between Bush and Tsungming Islands.	Uncertain ... 6 feet diameter, 12 feet high. Marks the southern edge of the shoals lying to the S.W. of Tsungming Island.
	9. Dove's Nest Buoy..	do. do.	On the edge of the Dove's Nest Shoal (which is a part of the Actæon Shoal), on the starboard side of the channel.	do. ... 6 feet diameter, 11½ feet high.
	10. Triumph Bank Buoy.†	Black buoy with black inverted frustum cage.	On edge of the bank which extends from the southern shore.	do. ... do. do. *
	11. Actæon Buoy†.....	Red buoy with black spherical cage.	Off the edge of the Actæon Shoal, on the starboard side of the channel.	do. ... do. do. *
	12. Centaur Lower Buoy.†	Black buoy with black spherical cage.	On the south-eastern extremity of the Centaur Shoal.	do. ... do. do. *
	13. Actæon Shoal Upper Buoy.† §	Red and black vertically striped conical buoy, surmounted by a black triangular cage.	Off the north-western end of the Actæon Shoal.	do. ... do. do. *
	14. Middle Bank Buoy.‡	Red and black horizontally striped buoy surmounted by a black spherical cage.	Lower end of the Langshan Crossing.	do. ... do. do. *
	15. North Bank Buoy‡	Red buoy with black inverted frustum cage.	To the southward of the south-eastern elbow of the North Bank.	do. ... do. do. *
	16. Langshan Buoy‡...	Red buoy with black spherical cage.	Off the edge of the bank forming the north-eastern side of the channel.	do. ... do. do. *
	17. Vine Point Lower Buoy.‡	Red buoy with black conical frustum cage.	do. do.	do. ... do. do. *
	18. Waterman Bank Upper Buoy.‡	Black buoy with black spherical cage.	Off the north-eastern edge of the continuation of the Waterman Bank.	do. ... do. do. *
	19. Vine Point Buoy‡	Red buoy with black spherical cage.	Off the north-western edge of the Vine Point Shoal.	do. ... 10 feet diameter, 18 feet high to top of cage.*
	20. North Tree Rocks Buoy.	Red buoy with black inverted frustum cage.	About 100 yards to the southward and westward of the rocks.	do. ... 6 feet diameter, 11½ feet high.
	21. South-east Spit Buoy.§	Black buoy with black spherical cage.	Off the south-eastern end of the Actæon and Dove's Nest Shoals.	do. ... do. do.
	22. Cone Tree Buoy §...	Black conical buoy, surmounted by a black spherical cage.	Off the eastern edge of the Actæon Shoal.	do. ... do. do.
	23. Fairway Buoy §....	Red and black horizontally striped conical buoy, surmounted by a black spherical cage.	A little to the westward of mid-channel.	do. ... do. do.
	24. North-east Actæon Buoy.§	Black conical buoy, surmounted by a black spherical cage.	Off the north-eastern edge of the Actæon Shoal.	do. ... do. do.
	25. Drinkwater Point Buoy	Red and black horizontally striped fairway buoy, with black spherical cage.	In the North Channel	24 feet..... 10 feet diameter, 18 feet high. Shaweishan Lighthouse bears N. 86° E., distant about 12 miles.

* The banks at the Centaur and Langshan Crossings are subject to frequent changes. These parts of the river should therefore be navigated with caution, and the lead kept going.

† These four buoys lead over the Centaur Crossing.

‡ These six buoys lead over the Langshan Crossing.

§ These five buoys mark the Harvey Point Channel.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
CHINKIANG.				
1. Silver Island Spit Buoy	Red and black vertically striped 6 foot conical buoy, surmounted by a black diamond-shaped cage.	On the end of spit, eastward of Silver Island.	Uncertain...	Vessels should not pass between this buoy and Silver Island.
TIENTSIN.				
1. Entrance Buoy*.....	Red iron nun buoy	On the outer edge of Taku Bar, to mark its commencement and entrance to the old channel.	2 feet.	
2. South Buoy*.....	Black iron nun buoy	On the south side of the bar, to mark a bend in the channel.	4 do.	
3. Inner Buoy*.....	Red iron nun buoy	On the south edge of the north bank, to mark the inner entrance to the river.	4 do.	
4. Fairway Buoy*.....	Egg buoy, horizontal black and red bands, surmounted by a black cage.	Placed at the entrance to the new channel as a leading mark.	4 do.	
NEWCHWANG.				
1. Entrance Buoy†	Black conical buoy, surmounted by a black frustum cage.	On the south-western extremity of the west bank and outer edge of the bar.	16 feet.	
2. Middle Buoy†.....	Black conical buoy, surmounted by a black diamond-shaped cage.	Inside the shoalest part of the bar, and marks the south-eastern extremity of the west bank.	8 do.	
3. Inner Buoy†.....	Red nun buoy, surmounted by a red spherical cage.	Marks the western edge of east bank and shows about the inside limit of the shoal water.	12 do.	

* During the winter months the four iron buoys in the Tientsin district are replaced by spar buoys, painted black.

† From about the 1st November until about the 10th April the three iron buoys in the Newchwang district are replaced by wooden spar buoys, of similar colours, surmounted by black cages fixed on bamboo perches.

BEACONS.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
	CANTON.			
1, 2	Dutch Folly North Beacons.	On the rocks near Dutch Folly Island, north side of the channel.	Round granite beacons, 26 feet high, painted red, and surmounted by a lantern.	Two <i>red</i> lights.
3	Dutch Folly South Beacon.	On the rocks near Dutch Folly Island, south side of the channel.	A round stone and brick beacon, 22 feet high, painted black, and surmounted by a lantern.	A <i>green</i> light.
4-6	Taishek Barrier Beacons.	On the northern side of the Barrier, Blenheim Passage.	Spar beacons, 46 feet high, surmounted by a circular frame, and painted red, white, and red.	Two <i>red</i> globe lanterns hoisted to heads of spars.
7	Taimei Beacon.....	On the end of sandspit making out from 49th Point, Marines Island, Blenheim Passage.	Spar beacon, 27 feet 6 inches high, surmounted by a square frame, and painted black, white, and black.	A <i>white</i> globe lantern hoisted to frame.
	SWATOW.			
8	Gochang Rock Beacon.	On the rock, Swatow Anchorage	Black, granite beacon, 5 feet in diameter, 5 feet high, and carrying a 5 feet high pole surmounted by a black wicker basket.	The highest of these rocks is covered at high water. From the beacon Gochang Point bears S. 31° E., and is distant about 350 yards; Bottefurh's Rock bears N. 76° E.
	AMOY.			
9	Alibi Rock Beacon...	On a rock a little to the N.E. of the northern end of Kulangsu.	Black, granite obelisk, 22 feet high above the rock.	The rock dries at low water.
10	Kangsintah Beacon.	These two beacons mark two reefs of rocks (extending out from Kulangsu) at points where they uncover at $\frac{3}{4}$ ebb.	Black, granite obelisk, 15 feet high above the rock on which it is built.	A rock, covered 14 $\frac{1}{2}$ feet at low water springs, lies N. by E. 40 yards from the southern of these two beacons (Chiotah); and S.E. by E. from the same beacon, distant about 100 yards, is a rocky patch, the centre and shoalest part of which has only 5 feet of water on it at low water springs. From the centre of this patch Alibi Rock Beacon is seen just open to the N.E. of the northern of these two beacons and in line with the west face of Monkey Island. The highest pinnacle of the Coker Rocks is in line with these two beacons, bearing from them about S. 34° E.
11	Chiotah Beacon		Black, granite obelisk, 17 feet high above the rock on which it is built.	
12-24	Harbour Marks.....	On rocks in the Inner Harbour. Three off the northern end of Kulangsu; six on the west side of the Inner Harbour; and four on the east side of the Inner Harbour	13 perches, with round basket tops. The four on the eastern side of the Inner Harbour are painted red; the remaining nine black. The baskets on all the perches are painted white.	The first three mark the northern edges of reefs off the north end of Kulangsu. The next six are on rocks on the western side of the Inner Harbour. The last four are on the eastern side.

BEACONS—Continued.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
TAMSUI.				
25	Bush Island Beacon	On the extreme west end of Bush Island, Kelung Harbour.	Grating, 8 feet by 6 feet, mounted on a single spar 42 feet high. The grating is painted white, the spar is painted black.	
FOOCHOW.				
26	Oriental Rock Beacon.	On Oriental Rock, Kimpai Pass	Spar mounted with a cage, 4 ft. square on the upper and 2 ft. 6 in. on the lower part. Painted red, with the words "ORIENTAL ROCK" in white on the cage. Shows 14 ft. above high water spring tides.	At high water spring tides the rock is covered 4 feet. Vessels must pass to the south of the beacon, and not nearer than 100 feet.
27	Half-tide Rock Beacon.	On the Half-tide Rock, near the upper end of Tongue Shoal.	Built of granite, painted black	The rock is submerged 5 feet at high water springs.
28	Pagoda Rock Beacon	On the rock in the Pagoda Anchorage.	Iron pile surmounted by a cage painted red.	A red light is exhibited from sunset to sunrise. The rock is submerged 10 feet at high water springs.
29	Mamoi Rock Beacon	On Mamoi Rock	Pole with cage painted red	The rock is only covered at high water.
WENCHOW.				
30	Elephant Rock Beacon.	On a small pinnacle rock called "Hsiang-shih" (Elephant Rock), about 600 feet S.E. of the east end of Pagoda Island (Ku-hsü, or, vulgarly, Kiang-sin-sze), which is in the middle of the river opposite the north wall of the city.	The beacon consists of an iron mast 3 inches in diameter, painted red, on which is fixed a bamboo basket 6 feet in diameter, painted red, with a white horizontal band round the centre.	The top of the mast is 15 feet above high water springs. The centre of the basket is 9 feet 6 inches above high water springs. The rock is submerged 8 feet at high water springs.
31, 32	1st Crossing or Lower Anchorage Beacons.	On the right bank of the Ou River, about $1\frac{3}{4}$ miles to the westward of the Lower Anchorage Station.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The poles are painted in black and white horizontal stripes, and the bamboo frames half black and half white horizontally.	These beacons kept in line should indicate the best channel for crossing to the south-western point of Ch'i-tu-t'u (Big Island).
33, 34	2nd Crossing or Ch'i-tu-t'u Beacons.	* On the south-western end of Ch'i-tu-t'u (Big Island).	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The poles are painted in red and white horizontal stripes, and the bamboo frames half red and half white horizontally.	These beacons kept in line should indicate the best channel between Ch'i-tu-t'u and Yang-fu-shan-t'u.

* The name of one island in the Ou River is incorrectly given in the British Admiralty Chart No. 1,763, latest edition: "Yang-fu-shan-tau or Chi-tu Island" should be Yang-fu-shan-t'u.

BEACONS—Continued.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
35, 36	3rd Crossing or Yang-fu-shan-t'u Beacons.	* On the north-eastern end of Yang-fu-shan-t'u.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The poles are painted in black and white horizontal stripes, and the bamboo frames half black and half white horizontally.	These beacons kept in line should indicate the best channel between Yang-fu-shan-t'u and the left (northern) bank of the river.
37, 38	4th Crossing or Chiang-t'u Beacons.	On the left (northern) bank of the river, a short distance to the eastward of Chiang-t'u.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 ft. square. 2. A pole, 26 ft. high, surmounted by a pyramidal bamboo frame 6 ft. high. The poles are painted in red and white horizontal stripes, and the bamboo frames half red and half white horizontally.	These beacons kept in line should indicate the best channel between the northern bank of the river and the city.
NINGPO.				
39	Alligator Beacon.....	On Alligator Point, a ledge of rocks extending 2 cables south from the extreme southern end of Kintang Island.	Stone beacon, painted red.....	Long-nose Point bears N. $56\frac{1}{2}^{\circ}$ W.; Just-in-the-way bears S. 87° E.
40	Blonde Rock Beacon	Blonde Rock, in the Kintang Channel.	Iron beacon, with cage, painted black.	Sanshan Islet bears S. 42° E.; Square Island, N. 65° W.; Beacon Hill in one with the citadel, S. 45° W. Rock awash at low water.
41	Tiger's Tail Beacon...	On a rock bearing N. 43° W. from the tower on Tiger Island; distance 210 yards.	Iron beacon, painted black, with a white cage.	Rock awash at half tide.
42	Nemesis Rock Beacon.	On a ledge of rocks extending from the north-eastern point of Tayew Island.	Hard-wood spar, painted red, with an inverted frustum cage, painted white.	Erected by Chinese, but maintained by the Customs.
SHANGHAI.				
43	Kiutoan Beacon.....	South side of entrance to the River Yangtze.	Round black tower, 70 feet high.	Formerly a light was exhibited from this tower, but it was discontinued in April 1878, when the <i>Kiutoan</i> Lightship (Light No. 49 of this publication) was first placed in position. The beacon is of little use as a guide to a stranger.
44, 45	Woosung Inner-Bar Marks.	On the right bank of the Woosung River.	1. A low pole with a pyramidal top near the river bank. 2. A high pole with a rectangular top farther inland.	These poles kept in line lead across the bar in the depth of water which is signalled from the Customs station during daylight. A red light on the low pole and a white light on the high pole indicate the same channel by night.
46	Drinkwater Point Beacon.	South-eastern end of Tsung-ming Island.	Quadrangular open-work structure of wood, 50 feet high, and not painted.	
KIUKIANG.				
47	Lay Island Beacon...	On the island, about 1 mile from the upper (west) end.	A spar beacon, 45 feet above high water, surmounted by a black ball, and painted black and white.	It marks the channel in crossing over from the south to the north bank during the low state of the river in winter.

* The name of one island in the Ou River is incorrectly given in the British Admiralty Chart No. 1,763, latest edition: "Yang-fu-shan-tau or Chi-tu Island" should be Yang-fu-shan-t'u.

BEACONS—*Continued.*

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
48	CHEFOO. Fairway Rock Beacon.	On the Fairway Rock, off the north-western point of Yentai Hill.	An iron rod surmounted by a cage.	Rock dries at low water spring tides. Chefoo Peak, N. 4° W.; Sentry Rock, N. 38° E.; Chefoo Lighthouse, N. 85° E.
49	TIENTSIN. Wooden Beacon....	On the north bank, at the mouth of the Peiho.	Pyramid shape, painted white.	
50, 51	North Bank Marks	do. do.	Two poles, 30 feet high, with cages.	
52, 53	South Bank Marks	On the south bank, near the mouth of the Peiho.	do. do.	
54	South Bank Mark	On the south bank, near the C. M. S. N. Co.'s godown.	A board painted one half black, one half white, erected on two poles 20 feet high.	It marks the channel after rounding the No. 3 or Inner Buoy.
55	NEWCHWANG. East Spit Beacon*	On the East Spit, a shoal extending south-westerly from the dry bank of the river.	Red spar, mounted with two red balls; 25 feet above high water.	It marks the western edge of East Spit, on the starboard side of channel. The Whale's Back Shoal, on the opposite side of the fairway, bears about S.W. by W. $\frac{1}{2}$ W. from this beacon.
56	Nodding Tommy Beacon.*†	On the east bank of the river, and 1 mile above East Spit Beacon.	Red spar, mounted with a red diamond-shaped box, which has a white band 1 foot wide painted round the middle of it. The spar is 25 feet above high water.	It marks the east bank of the river.
57	Middle Bank Beacon.*	On the east bank of the river, about $2\frac{1}{4}$ miles above Nodding Tommy Beacon.	Red spar, mounted with a red spherical cage, 25 feet above high water.	Middle Bank Shoal, on the opposite side of the channel, bears about S.W. by W. $\frac{3}{4}$ W. from this beacon.
58	Flagstaff Beacon....	On dry ground on the east bank of the river, and 7 cables N.E. from Middle Bank Beacon.	Spar, 50 feet high, mounted with two diamond-shaped boxes. The spar is painted red from the ground to the bottom of lower box, white from thence to the bottom of upper mark, and the remainder red.	
59	Fish House Beacon	On the west bank of the river, near high water mark, and a short distance from the bend that leads to the harbour.	Black spar, 40 feet high, mounted with a black diamond-shaped box.	It marks the channel in crossing over from the east to the west bank of the river.

* These three beacons are removed every year, in the latter part of November, on account of ice in the river, and replaced as soon as practicable on the opening of navigation.

† To the S.E. of Nodding Tommy and about 200 yards from it there is a beacon painted black which is intended for survey purposes only.

A. M. BISBEE,

Coast Inspector.

By Order of the INSPECTOR GENERAL,

H. KOPSCH,

Statistical Secretary.

INSPECTORATE GENERAL OF CUSTOMS,
STATISTICAL DEPARTMENT,
SHANGHAI, *January 1892.*

APPENDIX I.

LIST OF FOREIGN LIGHTS STAFF.

(Corrected to 1st December 1891.)

No.	NAME.	Rank.	Date of first Appointment.	District or Section.
LIGHT-VESSELS.				
1	C. J. V. Hoerk.....	Captain	December 1890	Shanghai.
2	C. E. R. Handro	"	November 1882	Tientsin.
3	W. W. Orfeur.....	"	March 1880	Newchwang.
4	L. R. Sachs	First Mate.....	July 1885	Shanghai.
5	P. McPherson.....	" "	March 1890	"
6	A. H. A. Windhorst.....	" "	December "	"
7	C. Druwert.....	" "	November 1886	Tientsin.
8	G. Deitz.....	" "	March 1877	Newchwang.
9	F. W. E. Wichmann.....	Second Mate.....	December 1889	Newchwang.
10	J. Parker.....	" "	October 1891	"
LIGHTHOUSES.				
LIGHTKEEPERS.				
11	J. Noble.....	Chief, A	June 1877	Amoy.
12	P. F. S. Wilnau	" "	November 1879	"
13	N. Smerdeley	" "	March 1869	Shanghai.
14	T. Cunningham.....	" "	June 1877	"
15	C. W. Bond	" "	" "	"
16	J. Harp.....	" "	" "	Chefoo.
17	J. Eccles	" "	" "	"
18	D. Botelho	Chief, B	December 1861	Amoy.
19	C. May	" "	July 1880	"
20	P. J. J. Stellingwerff.....	" "	February 1877	"
21	G. T. Hansel	" "	October 1885	"
22	G. E. von Pein.....	" "	April 1881	"
23	D. Wisas.....	" "	September 1875	Chefoo.
24	C. G. Soelberg.....	Second A	April 1881	Amoy.
25	J. Chapman.....	" "	June 1878	"

APPENDIX I—Continued.

No.	NAME.	Rank.	Date of first Appointment.	District or Section.
26	J. S. de Elizaga	Second, A	December 1878	Amoy.
27	B. Lewis.....	" "	June 1877	Chefoo.
28	C. A. Schwilp.....	" "	September 1886	"
29	J. Shields.....	Second, B	August 1881	Amoy.
30	L. H. C. Klyhn	" "	January 1885	"
31	D. Fernandez	" "	June 1878	"
32	E. E. Ferrari	" "	April 1884	"
33	A. F. C. Penzig	" "	May 1882	Shanghai.
34	J. Bluhm	" "	March 1885	"
35	L. J. A. de Luz	" "	January 1878	"
36	J. Rodrigues.....	" "	August 1877	"
37	A. M. dos Santos	Third, A	March 1882	Amoy.
38	H. A. Atkinson	" "	August 1885	"
39	F. H. Lucassen	" "	" "	"
40	T. O'Driscoll.....	" "	January 1887	"
41	H. P. T. Möller.....	" "	November "	"
42	C. L. Christiansen.....	" "	December 1888	"
43	J. H. Buntzen	" "	" "	"
44	B. R. Bohn	" "	April 1889	"
45	J. C. H. Schmüser.....	" "	August 1888	"
46	P. H. Niner.....	" "	" "	"
47	F. R. Schulz	" "	September 1887	Shanghai.
48	G. Walsh	" "	February "	"
49	J. Wulf.....	" "	November 1889	"
50	P. E. Johnsen.....	" "	March 1885	Chefoo.
51	F. Dalton	" "	" 1887	"
52	H. A. Thorkelsen.....	" "	September "	Tientsin.
53	J. C. Bruhn	Third, B	February 1890	Amoy.
54	H. J. Jacobsen	" "	" "	"
55	H. L. K. Rath [<i>on probation</i>].....	" "	March 1891	"
56	C. van Wýnsberghe.....	" "	January "	Shanghai.
57	D. Ross [<i>on probation</i>].....	" "	May "	"
58	R. Schöning [<i>on probation</i>]	" "	October "	"
59	J. Lewis	" "	January 1890	Chefoo.
60	W. Perry.....	" "	October "	"

APPENDIX II.

LIST OF CHINESE LIGHTS STAFF.

(Corrected to 1st December 1891.)

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
	LIGHTKEEPERS.				
1	Liang Kuang	梁 光	Fourth, C	April 1880	Canton.
2	Lao Shih-wu	勞 十 五	" "	October 1881	"
3	Lao Tê	勞 德	" "	" "	"
4	Ch'ên Chin	陳 金	" "	November "	"
5	Ho Kao	何 高	" "	September 1882	"
6	Liang Yu-chin	梁 有 進	" "	December 1883	"
7	Su Ch'iao	蘇 喬	" "	February 1888	"
8	Chên Fu	陳 富	" "	July 1889	"
9	Chên Kên	陳 根	" "	August 1890	"
10	Li Kün	李 坤	" "	July 1891	"
11	Liang Chi	梁 濟	" "	" "	"
12	Huang Ch'í	黃 泣	" "	" "	"
13	Huang Chin-t'ang	黃 金 堂	" "	" "	"
14	Huang Chang	黃 章	" "	August "	"
15	Ho Yu	霍 有	" "	November "	"
16	Liu Shêng-hsiang	劉 勝 祥	" "	" "	"
17	Huang Wei	黃 威	" "	March 1883	Amoy.
18	Ts'ao Hsi-ti	曹 細 弟	" "	June 1888	"
19	Hsü Hsi-mei	許 細 妹	" "	December 1879	"
20	Nien A-pa	念 阿 拔	" "	February 1880	"
21	Chêng A-tê	鄭 阿 得	" "	November 1876	"
22	Chuang A-k'un	莊 阿 坤	" "	" 1883	"
23	Hung Hua	洪 華	" "	December 1880	"

APPENDIX II—Continued.

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
24	Kuan Shê.....	官 賒	Fourth, C	September 1883	Amoy.
25	Lin Ch'iu.....	林 求	" "	" 1871	"
26	Yü Ts'ung.....	玉 聰	" "	May 1891	"
27	Li Chi	李 吉	" "	" 1862	"
28	Li Tun.....	李 盾	" "	November 1878	"
29	Li Hsün	李 罈	" "	April 1883	"
30	Huang Chên.....	黃 振	" "	November 1871	"
31	Chi Hsiang	紀 响	" "	May 1881	"
32	Hsü A-chui.....	許 阿 追	" "	November 1889	"
33	Hsü A-chu	許 阿 朱	" "	February 1884	"
34	Li Ju.....	李 如	" "	April 1881	"
35	Ch'ên A-chien	陳 阿 賤	" "	September "	"
36	Wu A-yin	吳 阿 印	" "	July 1888	"
37	Huang A-ch'êng.....	黃 阿 盛	" "	November 1889	"
38	Chu Chiang	朱 江	" "	August 1885	"
39	Chu Ch'ao-fu.....	朱 朝 富	" "	September 1888	"
40	Ch'êng Ch'in	成 欽	" "	February 1891	"
41	Lin Yu-lai.....	林 有 來	" "	May 1882	"
42	Hsü A-chiang	徐 阿 江	" "	April 1881	"
43	Chu Ch'êng-chin	朱 成 進	" "	September 1882	"
44	Chao Ch'un-piao	趙 春 標	" "	June "	"
45	Lin A-chu.....	林 阿 猪	" "	February "	"
46	Ch'ên I.....	陳 義	" "	July 1884	"
47	Kuo Piao	郭 標	" "	" 1885	"
48	Li Lai.....	李 來	" "	September 1877	"
49	Wang Shui-t'ao.....	王 水 陶	" "	December 1868	Tainan.
50	Lu Ch'ing-ch'ian	盧 清 泉	" "	June 1886	"
51	Huang Yu-lai	黃 友 來	" "	April 1888	Tamsui.
52	Kuo Mao-shêng.....	郭 茅 生	" "	November "	"

APPENDIX II—Continued.

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
53	Lin T'ung	林 桶	Fourth, C	July 1886	Tamsui.
54	Lin Mu	林 木	" "	November 1890	"
55	Ch'ên Ch'ang-yung	陳 昌 榮	" "	April 1864	Ningpo.
56	Ku A-hsiao	顧 阿 小	" "	November 1873	"
57	Wu Ping-chiang	鄔 炳 江	" "	January 1875	"
58	Ku Chi-chang	顧 寄 章	" "	September 1877	"
59	Ch'ên A-ao	陳 阿 鰲	" "	— 1872	"
60	Wang Chung-huai	王 中 懷	" "	August 1879	"
61	Shih A-hsüan	史 阿 煊	" "	— 1867	"
62	Ting A-t'ang	丁 阿 堂	" "	August 1870	Shanghai.
63	Yao Ting-kuei	姚 定 貴	" "	April 1880	"
64	Ling Hsiao-fang	陵 小 芳	" "	June 1869	"
65	Yang Shun-chung	楊 順 忠	" "	May 1873	"
66	Hsü Kuang-shêng	徐 光 生	" "	February 1882	"
67	P'an Lung-ch'üan	潘 龍 泉	" "	April 1878	"
68	Yang Jui-chi	楊 瑞 吉	" "	August 1883	"
69	Ts'ao A-pao	曹 阿 寶	" "	January "	"
70	Fu Chih-shou	傅 吉 壽	" "	February 1877	"
71	Liu Hêng-ch'in	劉 恒 欽	" "	January 1875	"
72	Shên Ta-shêng	沈 大 生	" "	July 1883	"
73	Sung A-hsiao	宋 阿 小	" "	" 1876	"
74	Yen A-san	嚴 阿 三	" "	September 1878	"
75	Chao Kuei-yün	趙 貴 云	" "	January 1883	"
76	Ch'ên A-fang	陳 阿 方	" "	June 1864	"
77	Liu Yin-kuei	陸 銀 貴	" "	September 1880	"
78	Shên Yün-yao	沈 云 姚	" "	January 1884	"
79	Fei Chin-pao	費 金 寶	" "	April 1881	"
80	Liu Kun-jung	陸 坤 榮	" "	March "	"
81	Lo Ssü-yo	羅 四 岳	" "	July 1883	"

APPENDIX II—Continued.

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
82	Shên Lai-yu.....	沈來友	Fourth, C	December 1889	Shanghai.
83	Lo Chung-hsiao	樂忠孝	" "	June 1888	"
84	Ts'ui Tê-fu.....	崔德福	" "	April 1873	Chinkiang.
85	Yen Wei-ch'un.....	嚴維春	" "	December 1886	"
86	Lu Hêng-i.....	陸恒義	" "	" 1870	"
87	Hsü Hung.....	徐洪	" "	July 1878	"
88	Ts'ui Tê-jung.....	崔得榮	" "	August 1867	"
89	Ts'ui Hêng-fa	崔恒發	" "	November 1881	"
90	Shao I-ts'ai	邵義才	" "	" 1877	"
91	Wang T'ien-ts'ai	王天才	" "	February 1873	"
92	Wang Fu-ch'uan	王福泉	" "	January 1880	"
93	Ting Yu-lin	丁有林	" "	June 1889	"
94	Chou Tê-shêng	周德盛	" "	" 1879	"
95	Ts'ai Wên-chên	蔡文鎮	" "	September 1887	"
96	Huang Tê-jung.....	黃德榮	" "	March 1869	"
97	Huang Shou-lan	黃壽蘭	" "	July 1881	"
98	Hung Wan-i.....	洪萬億	" "	February 1866	"
99	Ku Yung-lin	顧永林	" "	June 1885	"
100	Ch'ên Yu-i.....	陳有義	" "	April 1875	"
101	Yü Tê-shui.....	虞德水	" "	August 1884	"
102	Hsü Yung-shêng.....	徐永生	" "	April 1881	"
103	Pu Liu-yüan.....	卜流源	" "	July 1878	"
104	Yang Tê-shun	楊德順	" "	June 1888	"
105	Hsü Shao-ch'ên.....	許少臣	" "	July 1891	"
106	Wang Lung-hai	王龍海	" "	May 1876	Kiukiang.
107	Chu Mei-ch'uan	朱美全	" "	July 1891	"
108	Hsieh Yün-ch'uan	謝運全	" "	January "	"
109	Hsieh Shun-huai.....	謝順懷	" "	April "	"
110	Wan Ting-hsien.....	萬鼎先	" "	" 1872	"

APPENDIX II—Continued.

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
111	Chang Yu-fu.....	張佑富	Fourth, C	November 1889	Kiukiang.
112	Wang Ching-fa.....	王慶發	" "	July 1884	"
113	Chang Liang-shan	張良善	" "	December 1885	"
114	Wan Yü-huai	萬裕淮	" "	" 1888	"
115	Wang Ch'üan-chin	王全金	" "	May 1887	"
116	I Sui-hai.....	易綏海	" "	April 1890	"
117	Ts'ai Tsêng-fa	蔡增發	" "	December 1873	"
118	Wan Shih-li.....	萬時利	" "	April 1885	"
119	Wu Pên-hsin	吳本信	" "	June "	"
120	Chao Ta-chiu	趙達九	" "	" 1871	"
121	Kuei Ch'un-ying.....	桂春迎	" "	" 1876	"
122	Liang I-fang	梁儀芳	" "	November 1889	"
123	Chang Shu-k'un	張述坤	" "	October 1872	"
124	Hu Ta-chêng.....	胡大正	" "	May 1891	"
125	Wang Wu-shang	王伍尙	" "	November 1884	"
126	Wu Ching-nien.....	吳慶年	" "	April 1889	"
127	Chang Ming-kai.....	張明楷	" "	July 1891	"
128	K'ung Hsien-i.....	孔憲義	" "	January 1877	"
129	Wu Hsio-lin	吳學林	" "	April 1885	"
130	Ch'ên Chun-ch'üan.....	陳中全	" "	September 1891	"
131	K'ö Ming-i.....	柯明義	" "	March 1885	"
132	Chou Tsung-huai.....	周宗淮	" "	July 1890	"
133	Wan Yü-hai	萬裕海	" "	February 1885	"
134	Hsü Tsê-ming.....	徐澤明	" "	" 1891	"
135	Hsia Jui-ch'üan	夏瑞全	" "	November "	"
136	Wan Yü-chiu	萬裕秋	" "	February "	"
137	Li Hsün-lin	李訓林	" "	January 1884	"
138	T'ien Fang-chin	田方金	" "	July 1876	Hankow.
139	Liu Chung-lin	劉忠林	" "	April 1862	"

APPENDIX II—Continued.

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
140	Liu Hsio-ch'ing	劉學慶	Fourth, C	February 1879	Hankow.
141	Shih Hsing-wan	施興萬	" "	January 1869	"
142	Kao Hsing-ch'i	高興起	" "	December 1882	"
143	Liu Pi-ch'ang	劉必昌	" "	July 1869	"
144	Li Hsi-yüan	李喜元	" "	" 1883	"
145	Liu Chêng-ch'ien	劉正乾	" "	April 1879	"
146	Li Chêng-i	李正義	" "	September 1885	"
147	Kung Tso-ying	龔作英	" "	January 1882	"
148	Chang Lao-yao	張老么	" "	December 1873	"
149	Wang Ming-shan	王明善	" "	October 1883	"
150	Chang Nien-pao	張年寶	" "	" 1871	"
151	Chu Chêng-yu	朱正有	" "	February 1863	"
152	Kuo Yu-kuei	郭友貴	" "	April 1872	"
153	Huo Yü-ch'ing	霍裕慶	" "	November 1884	"
154	I Ming-yüan	易明元	" "	December 1885	"
155	Chiang Jên-k'uan	江人寬	" "	November 1891	"
156	Wang Ts'ai-kaio	王才高	" "	" "	"
157	Ch'ih Ch'ing-ling	遲慶令	" "	August 1879	Chefoo.
158	Chou Ta-tê	周大德	" "	" 1887	"
159	Chi Ming-shui	紀明水	" "	" 1882	"
160	Ch'ü Shu-t'ien	曲書田	" "	" "	"
161	Ting Wên-yüan	丁文元	" "	May 1871	"
162	Lü K'o-hsiao	呂克學	" "	December 1885	"
163	Jên Ch'üan-kuei	任全桂	" "	April 1886	"
164	Chou Yung-chih	周永智	" "	August 1889	"
165	Chê Ching-chun	車景春	" "	September 1883	"
166	Han Yung-hsi	韓永錫	" "	August 1891	"
167	Wang A-to *	王阿多	" "	June 1884	"
168	Mu Hsiang-ho *	慕香和	" "	September 1871	"

* Engineer and Lightkeeper.

APPENDIX II—*Continued.*

No.	NAME.		Rank.	Date of first Appointment.	District or Section.
	In English.	In Chinese.			
169	Chou Yung-hai.....	周永海	Fourth, C	November 1883	Chefoo.
170	Chang Ch'ing-fu	張慶福	" "	March 1886	"
171	Yü Pang-hsiu	于邦秀	" "	April 1891	"
172	Li Kuei-mao	李桂茂	" "	" "	"
173	Wang Tso-ying *	王左英	" "	September 1885	"
174	Tsao Chang-hui *	曹昌會	" "	August 1887	"
175	Sün Kuei-shan	孫桂山	" "	May 1861	Tientsin.

* Fireman.

III.—MISCELLANEOUS SERIES.

No. 1.	—THE TARIFF TABLES: First Issue	Published 1868.
„ 2.	—TEN YEARS' STATISTICS.....	„ 1873.
„ 3.	—VIENNA EXHIBITION CATALOGUE.....	„ 1873.
„ 4.	—PHILADELPHIA EXHIBITION CATALOGUE.....	„ 1876.
„ 5.	—PARIS EXHIBITION CATALOGUE.....	„ 1878.
„ 6.	—LIST OF CHINESE LIGHTHOUSES, etc.: Eighteenth Issue (First Issue, 1872)	„ 1890.
„ 7.	—LIST OF CHINESE LIGHTHOUSES, etc.: Chinese Version of the Eighteenth Issue (First Issue, 1877).....	„ 1890.
„ 8.	—GENERAL TARIFF LIST	„ 1879.
„ 9.	—BERLIN FISHERY EXHIBITION CATALOGUE.....	„ 1880.
„ 10.	—NAMES OF PLACES ON THE CHINA COAST AND THE YANGTZE RIVER: First Issue.....	„ 1882.
„ 11.	—LONDON FISHERIES EXHIBITION CATALOGUE.....	„ 1883.
„ 12.	—RULES REGARDING NOTARIAL ACTS TO BE PERFORMED BY COMMISSIONERS OF CUSTOMS, AND FORMS OF PROTEST: Second Issue (First Issue, 1882: Circular No. 187).....	„ 1883.
„ 13.	—LONDON HEALTH EXHIBITION CATALOGUE.....	„ 1884.
„ 14.	—NEW ORLEANS EXPOSITION CATALOGUE.....	„ 1884.
„ 15.	—ENGLISH-CHINESE GLOSSARY OF TECHNICAL ("LIGHTS," ETC.) EXPRESSIONS: First Issue.....	„ 1885.
„ 16.	—CATALOGUE OF CUSTOMS PUBLICATIONS, WITH PRICES: First Issue.....	„ 1887.
„ 17.	—LIST OF CHINESE MEDICINES.....	„ 1889.
„ 18.	—THE TARIFF TABLES, 1885: Second Issue ..	„ 1889.
